	changed a file from non-ASCII to ASCII  Changed a file from non-ASCII to ASCII
	Changed the margins in cases where the sequence text was "wrapped" down to the next line.
	Edited a format error in the Current Application Data section, specifically:
	Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other
	Added the mandatory heading and subheadings for "Current Application Data".
	Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integ
	Changed the spelling of a mandatory field (the headings or subheadings), specifically:
	Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
•	Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
	Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
	Inserted colons after headings/subheadings. Headings edited included:
-	Deleted extra, invalid, headings used by an applicant, specifically:
-	Deleted:  non-ASCII "garbage" at the beginning/end of files;  secretary initials/filename at end page numbers throughout text;  other invalid text, such as
	Inserted mandatory headings, specifically:
	Corrected an obvious error in the response, specifically:
•	Edited identifiers where upper case is used but lower case is required, or vice versa.
	Corrected an error in the Number of Sequences field, specifically:
_	
_	A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted

<sup>\*</sup>Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.



OIPE

```
PATENT APPLICATION: US/10/051,643
                                                          TIME: 18:41:39
                 Input Set : A:\PTO.AMC.txt
                 Output Set: N:\CRF3\02122002\J051643.raw
  4 <110> APPLICANT: Watson, James D.
         Tan, Paul L. J.
  7 <120> TITLE OF INVENTION: Methods and Compounds for the Treatment
          of Immunologically-Mediated Diseases of the Respiratory
          System using Mycobacterium Vaccae
 12 <130> FILE REFERENCE: 11000.1008c2
 14 <140> CURRENT APPLICATION NUMBER: US/10/051,643
 14 <141> CURRENT FILING DATE: 2002-01-18
 14 <150> PRIOR APPLICATION NUMBER: US09/156,181
 15 <151> PRIOR FILING DATE: 1998-09-17
 17 <150> PRIOR APPLICATION NUMBER: US 08/996,624
 18 <151> PRIOR FILING DATE: 1997-12-23
 20 <160> NUMBER OF SEQ ID NOS: 208
 22 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 25
 26 <212> TYPE: PRT
 27 <213> ORGANISM: Mycobacterium vaccae
 29 <220> FEATURE:
 30 <221> NAME/KEY: UNSURE
 31 <222> LOCATION: (7)...(7)
 33 <400> SEQUENCE: 1
34 Ala Pro Val Gly Pro Gly Xaa Ala Ala Tyr Val Gln Gln Val Pro Asp
                      5
 36 Gly Pro Gly Ser Val Gln Gly Met Ala
 37
 39 <210> SEQ ID NO: 2
 40 <211> LENGTH: 10
 41 <212> TYPE: PRT
 42 <213> ORGANISM: Mycobacterium vaccae
 44 <220> FEATURE:
 45 <221> NAME/KEY: UNSURE
 46 <222> LOCATION: (2)...(2)
 48 <400> SEQUENCE: 2
🖇 49 Met Xaa Asp Gln Leu Lys Val Asn Asp Asp
 50
                                          10
     1
 52 <210> SEQ ID NO: 3
 53 <211> LENGTH: 11
 54 <212> TYPE: PRT
 55 <213> ORGANISM: Mycobacterium vaccae
 57 <220> FEATURE:
 58 <221> NAME/KEY: UNSURE
 59 <222> LOCATION: (2)...(2)
```

RAW SEQUENCE LISTING

TIME: 18:41:39

Input Set : A:\PTO.AMC.txt Output Set: N:\CRF3\02122002\J051643.raw 61 <400> SEQUENCE: 3 62 Met Xaa Pro Val Pro Val Ala Thr Ala Ala Tyr 63 1 5 65 <210> SEQ ID NO: 4 66 <211> LENGTH: 21 67 <212> TYPE: PRT 68 <213> ORGANISM: Mycobacterium vaccae 70 <400> SEQUENCE: 4 71 Thr Pro Ala Pro Ala Pro Pro Pro Tyr Val Asp His Val Glu Gln Ala 5 73 Lys Phe Gly Asp Leu 74 20 76 <210> SEQ ID NO: 5 77 <211> LENGTH: 29 78 <212> TYPE: PRT 79 <213> ORGANISM: Mycobacterium vaccae 81 <220> FEATURE: 82 <221> NAME/KEY: UNSURE 83 <222> LOCATION: (25)...(25) 85 <400> SEQUENCE: 5 86 Met Gln Ala Phe Asn Ala Asp Ala Tyr Ala Phe Ala Lys Arg Glu Lys 87 1 5 Val Ser Leu Ala Pro Gly Val Pro Xaa Val Phe Glu Thr 88 89 20 91 <210> SEQ ID NO: 6 92 <211> LENGTH: 21 93 <212> TYPE: PRT 94 <213> ORGANISM: Mycobacterium vaccae 96 <220> FEATURE: 97 <221> NAME/KEY: UNSURE 98 <222> LOCATION: (6)...(6) 100 <400> SEQUENCE: 6 101 Met Ala Asp Pro Asn Xaa Ala Ile Leu Gln Val Ser Lys Thr Thr Arg 102 1 103 Gly Gly Gln Ala Ala 104 20 106 <210> SEQ ID NO: 7 107 <211> LENGTH: 11 108 <212> TYPE: PRT 109 <213> ORGANISM: Mycobacterium vaccae 111 <400> SEQUENCE: 7 112 Met Pro Ile Leu Gln Val Ser Gln Thr Gly Arg 113 1 10 115 <210> SEQ ID NO: 8 116 <211> LENGTH: 14 117 <212> TYPE: PRT 118 <213> ORGANISM: Mycobacterium vaccae 120 <220> FEATURE: 121 <221> NAME/KEY: UNSURE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/051,643

```
PATENT APPLICATION: US/10/051,643
                                                    TIME: 18:41:39
                  Input Set : A:\PTO.AMC.txt
                 Output Set: N:\CRF3\02122002\J051643.raw
  122 <222> LOCATION: (2)...(2)
  124 <221> NAME/KEY: UNSURE
  125 <222> LOCATION: (6)...(6)
  127 <400> SEQUENCE: 8
 128 Met Xaa Asp Pro Ile Xaa Leu Gln Leu Gln Val Ser Ser Thr
  129 1
                    5
  131 <210> SEQ ID NO: 9
  132 <211> LENGTH: 16
  133 <212> TYPE: PRT
  134 <213> ORGANISM: Mycobacterium vaccae
  136 <400> SEQUENCE: 9
  137 Lys Ala Thr Tyr Val Gln Gly Gly Leu Gly Arg Ile Glu Ala Arg Val
  138 1
                       5
                                          10
  140 <210> SEQ ID NO: 10
  141 <211> LENGTH: 9
  142 <212> TYPE: PRT
  143 <213> ORGANISM: Mycobacterium vaccae
  145 <220> FEATURE:
  146 <221> NAME/KEY: UNSURE
  147 <222> LOCATION: (2)...(2)
  149 <400> SEQUENCE: 10
151
      1
  153 <210> SEQ ID NO: 11
  154 <211> LENGTH: 14
  155 <212> TYPE: PRT
  156 <213> ORGANISM: Mycobacterium vaccae
  158 <220> FEATURE:
  159 <221> NAME/KEY: UNSURE
  160 <222> LOCATION: (12)...(12)
  161 <223> OTHER INFORMATION: Residue can be either Glu or Ile
  163 <221> NAME/KEY: UNSURE
  164 <222> LOCATION: (2)...(2)
  166 <400> SEQUENCE: 11
> 167 Lys Xaa Tyr Ala Leu Ala Leu Met Ser Ala Val Xaa Ala Ala
  168 1
                       5
  170 <210> SEQ ID NO: 12
  171 <211> LENGTH: 11
  172 <212> TYPE: PRT
  173 <213> ORGANISM: Mycobacterium vaccae
  175 <220> FEATURE:
  176 <221> NAME/KEY: UNSURE
  177 <222> LOCATION: (10)...(10)
  179 <400> SEQUENCE: 12
> 180 Lys Asn Pro Gln Val Ser Asp Glu Leu Xaa Thr
  181
  183 <210> SEQ ID NO: 13
  184 <211> LENGTH: 21
  185 <212> TYPE: PRT
```

RAW SEQUENCE LISTING

TIME: 18:41:39

Input Set : A:\PTO.AMC.txt Output Set: N:\CRF3\02122002\J051643.raw 186 <213> ORGANISM: Mycobacterium vaccae 188 <220> FEATURE: 189 <221> NAME/KEY: UNSURE 190 <222> LOCATION: (9)...(9) 192 <400> SEQUENCE: 13 193 Ala Pro Ala Pro Ala Ala Pro Ala Xaa Gly Asp Pro Ala Ala Val Val 5 195 Ala Ala Met Ser Thr 196 20 198 <210> SEQ ID NO: 14 199 <211> LENGTH: 15 200 <212> TYPE: PRT 201 <213> ORGANISM: Mycobacterium vaccae 203 <220> FEATURE: 204 <221> NAME/KEY: UNSURE 205 <222> LOCATION: (5)...(5) /207 <400> SEQUENCE: 14 ∜ 208 Glu Ala Glu Val Xaa Tyr Leu Gly Gln Pro Gly Glu Leu Val Asn 211 <210> SEQ ID NO: 15 212 <211> LENGTH: 15 213 <212> TYPE: PRT 214 <213> ORGANISM: Mycobacterium vaccae 216 <220> FEATURE: 217 <221> NAME/KEY: UNSURE 218 <222> LOCATION: (2)...(2) 219 <223> OTHER INFORMATION: Residue can be either Gly or Ala 221 <221> NAME/KEY: UNSURE 222 <222> LOCATION: (15)...(15) 223 <223> OTHER INFORMATION: Residue can be either Pro or Ala 225 <221> NAME/KEY: UNSURE 226 <222> LOCATION: (7)...(7) 228 <400> SEQUENCE: 15 229 Ala Xaa Val Val Pro Pro Xaa Gly Pro Pro Ala Pro Gly Ala Xaa 230 1 5 232 <210> SEQ ID NO: 16 233 <211> LENGTH: 15 234 <212> TYPE: PRT 235 <213> ORGANISM: Mycobacterium vaccae 237 <400> SEQUENCE: 16 238 Ala Pro Ala Pro Asp Leu Gln Gly Pro Leu Val Ser Thr Leu Ser 239 10 241 <210> SEQ ID NO: 17 242 <211> LENGTH: 25 243 <212> TYPE: PRT 244 <213> ORGANISM: Mycobacterium vaccae 246 <400> SEQUENCE: 17 247 Ala Thr Pro Asp Trp Ser Gly Arg Tyr Thr Val Val Thr Phe Ala Ser 248 10

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/051,643

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```
Input Set : A:\PTO.AMC.txt
                Output Set: N:\CRF3\02122002\J051643.raw
249 Asp Lys Leu Gly Thr Ser Val Ala Ala
250
                 20
252 <210> SEQ ID NO: 18
253 <211> LENGTH: 25
254 <212> TYPE: PRT
255 <213> ORGANISM: Mycobacterium vaccae
257 <220> FEATURE:
258 <221> NAME/KEY: UNSURE
259 <222> LOCATION: (15)...(15)
260 <223> OTHER INFORMATION: Residue can be either Ala or Arg
262 <221> NAME/KEY: UNSURE
263 <222> LOCATION: (23)...(23)
264 <223> OTHER INFORMATION: Residue can be either Val or Leu
266 <221> NAME/KEY: UNSURE
267 <222> LOCATION: (16)...(16)
269 <400> SEQUENCE: 18
270 Ala Pro Pro Tyr Asp Asp Arg Gly Tyr Val Asp Ser Thr Ala Xaa Xaa
271
     1
                      5
                                          10
272
    Ala Ser Pro Pro Thr Leu Xaa Val Val
273
275 <210> SEQ ID NO: 19
276 <211> LENGTH: 8
277 <212> TYPE: PRT
278 <213> ORGANISM: Mycobacterium vaccae
280 <400> SEQUENCE: 19
281 Glu Pro Glu Gly Val Ala Pro Pro
282
284 <210> SEQ ID NO: 20
285 <211> LENGTH: 25
286 <212> TYPE: PRT
287 <213> ORGANISM: Mycobacterium vaccae
289 <220> FEATURE:
290 <221> NAME/KEY: UNSURE
291 <222> LOCATION: (21)...(22)
293 <400> SEQUENCE: 20
294
    Glu Pro Ala Gly Ile Pro Ala Gly Phe Pro Asp Val Ser Ala Tyr Ala
295
     1
                       5
296
    Ala Val Asp Pro Xaa Xaa Tyr Val Val
297
                 20
299 <210> SEQ ID NO: 21
300 <211> LENGTH: 15
301 <212> TYPE: PRT
302 <213> ORGANISM: Mycobacterium vaccae
304 <220> FEATURE:
305 <221> NAME/KEY: UNSURE
306 <222> LOCATION: (7)...(7)
308 <400> SEQUENCE: 21
309 Ala Pro Val Gly Pro Gly Xaa Ala Ala Tyr Val Gln Gln Val Pro
310
      1
                                          10
                     Use of n and/or Xaa has been detected in the Sequence Listing:
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/051,643

Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

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Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\02122002\J051643.raw

```
L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:34 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:1
L:34 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:49~M:258~W: Mandatory Feature missing, <223> not found for SEQ ID#:2
L:49 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:62 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:3
L:62 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:88 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:5
L:88 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:101 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:6
L\!:\!101~M\!:\!341~W\!: (46) "n" or "Xaa" used, for SEQ ID#:6
L:128\ M:258\ W: Mandatory Feature missing, <223> not found for SEQ ID#:8
L:128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:150 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:10
L:150 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 L:167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:180 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:12
L:180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:193 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:13
L:193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:208 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:14
L:208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:272 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:296 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:20
L:296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:309 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:21
L:309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:351 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:25
L:351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:1276 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56
L:1290 \ M:341 \ W: (46) "n" or "Xaa" used, for SEQ ID#:57
L:1308 \ M:341 \ W: \ (46) \ "n" \ or "Xaa" \ used, for SEQ ID#:58
L:1369 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:63
L:1369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63
L:1371 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:63
L:1371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63
L:1386 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:64
L:1386 \ M:341 \ W: (46) "n" or "Xaa" used, for SEQ ID#:64
L:1405 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:65
L:1405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65
L:1407 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:65
```

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Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\02122002\J051643.raw

```
L:1407 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65
L:1526 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:2095 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101
L:2108 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:102
L:2108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:102
L:2129 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:103
L:2129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103
L:2131 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:103
L:2131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103
L:2153\ M:258\ W: Mandatory Feature missing, <223> not found for SEQ ID#:105
L:2153 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:105
L:2192 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:107
L:2192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:107
L:2266 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:111
L:2266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111
L:2295 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:112
L:2295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112
L:2572 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:120
L:2572 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120
L:2573 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:120
L:2573 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120
L:2632 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:121
L:2632 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121
L:2634 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:121
L:2634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121
L:2948 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:134
L:2948 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:134
L:3016 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:136
L:3016 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:136
L:3035 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:137
L:3035 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:137
L:3048 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:138
L:3048 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:138
L:3082 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:140
L:3082 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:140
L:3189\ M:258\ W: Mandatory Feature missing, <223> not found for SEQ ID#:146
L:3189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:146
L:3256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:148
L:3279 \ M:341 \ W: \ (46) \ "n" \ or "Xaa" \ used, for SEQ ID#:149
L:3364 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:153
L:3403\ M:258\ W: Mandatory Feature missing, <223> not found for SEQ ID#:154
L:3965 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:171
L:3966 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:171
L:4026 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:172
L:4028\ M:258\ W: Mandatory Feature missing, <223> not found for SEQ ID#:172
L:4286 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:177
L:4566 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:185
L:4567 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:185
L:4607 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:186
```

VERIFICATION SUMMARY

DATE: 02/12/2002

PATENT APPLICATION: US/10/051,643

TIME: 18:41:40

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\02122002\J051643.raw

L:4634 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:187 L:4687 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:191 L:4704 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:192 L:5053 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:203